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Washington, DC 20231  
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MANDEL & ADRIANO  
SARAH B. ADRIANO  
35 N. ARROYO PARKWAY  
SUITE 60  
PASADENA, CA 91103



\*101963390A\*

UNITED STATES PATENT AND TRADEMARK OFFICE  
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RECORDATION DATE: 11/30/2001

REEL/FRAME: 012502/0664  
NUMBER OF PAGES: 24

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:  
LIEBER, ANDRE

DOC DATE: 11/26/2001

ASSIGNOR:  
SHAYAKHMETOV, DMITRY

DOC DATE: 11/26/2001

ASSIGNOR:  
FARRER, DENISE

DOC DATE: 11/27/2001

ASSIGNOR:  
PAPAYANNOPOULOU, THALIA

DOC DATE: 11/29/2001

ASSIGNOR:  
STAMATOYANNOPOULOS, GEORGE

DOC DATE: 11/27/2001

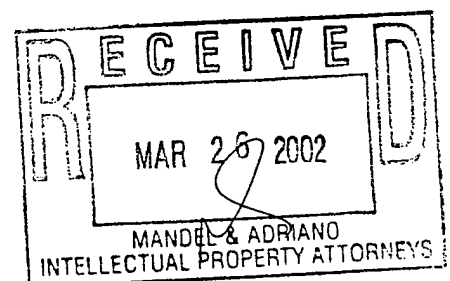
ASSIGNEE:  
WASHINGTON, UNIVERSITY OF  
1107 N. E. 45TH STREET  
SUITE 200  
SEATTLE, WASHINGTON 98105-4631

012502/0664 PAGE 2

SERIAL NUMBER: 09980564  
PATENT NUMBER:

FILING DATE: 11/30/2001  
ISSUE DATE:

JEFFREY OLSEN, EXAMINER  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS



A1058140

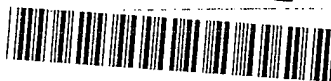
09/980564

RECORDED 3 0 NOV 2001

FORM PTO-1619A  
Expires 06/30/99  
OMB 0651-0027

01-29-2002

U.S. Department of Commerce  
Patent and Trademark Office  
**PATENT**



101963390

I EET

**PATENTS ONLY**

TO: The Commissioner of Patents and Trademarks: Please record the attached original document(s) or copy(ies).

**Submission Type**

New



Resubmission (Non-Recordation)

Document ID#



Correction of PTO Error

Reel #

Frame #



Corrective Document

Reel #

Frame #

**Conveyance Type**

Assignment



Security Agreement



License



Change of Name



Merger



Other

**U.S. Government**

(For Use ONLY by U.S. Government Agencies)



Departmental File



Secret File

**Conveying Party(ies)**

11.30.01



Mark if additional names of conveying parties attached

Execution Date  
Month Day Year

Name (line 1)

Andre Lieber

November 26, 2001

Name (line 2)

**Second Party**Execution Date  
Month Day Year

Name (line 1)

Dmitry Shayakhmetov

November 26, 2001

Name (line 2)

**Receiving Party**

Mark if additional names of receiving parties attached

Name (line 1)

University of Washington



If document to be recorded  
is an assignment and the  
receiving party is not  
domiciled in the United  
States, an appointment  
of a domestic  
representative is attached.  
(Designation must be a  
separate document from  
Assignment.)

Name (line 2)

Address (line 1)

1107 N. E. 45th Street

Address (line 2)

Suite 200

Address (line 3)

Seattle

Washington

98105-4631

City

State/Country

Zip Code

**Domestic Representative Name and Address**

Enter for the first Receiving Party only.

Name

Address (line 1)

40.00 OP

Address (line 2)

Address (line 3)

Address (line 4)

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09/980564

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FORM PTO-1619B  
Expires 06/30/99.  
OMB 0651-0027

Page 2

U.S. Department of Commerce  
Patent and Trademark Office  
**PATENT****Correspondent Name and Address**

Area Code and Telephone Number (626) 395-7801

Name Sarah B. Adriano

Address (line 1) Mandel &amp; Adriano

Address (line 2) 35 N. Arroyo Parkway

Address (line 3) Suite 60

Address (line 4) Pasadena, California 91103

**Pages**Enter the total number of pages of the attached conveyance document  
including any attachments.

# 26

**Application Number(s) or Patent Number(s)**☐ Mark if additional numbers attached

Enter either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the same property).

Patent Application Number(s)

Patent Number(s)

09/980564

If this document is being filed together with a new Patent Application, enter the date the patent application was  
signed by the first named executing inventor.

Month Day Year

**Patent Cooperation Treaty (PCT)**Enter PCT application number  
only if a U.S. Application Number  
has not been assigned.

PCT US00/15442

PCT

PCT

PCT

PCT

PCT

**Number of Properties**

Enter the total number of properties involved.

# 5

**Fee Amount**

Fee Amount for Properties Listed (37 CFR 3.41): \$ 200.00

Method of Payment:  
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(Enter for payment by deposit account or if additional fees can be charged to the account.)

Deposit Account Number:

# 50-0306

Authorization to charge additional fees:

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☒

No

☐**Statement and Signature***To the best of my knowledge and belief, the foregoing information is true and correct and any  
attached copy is a true copy of the original document. Charges to deposit account are authorized, as  
indicated herein.*

Sarah B. Adriano

Sarah B. Adriano

11/30/01

Name of Person Signing

Signature

Date

U9/980564

10/20/2001 3 0 NOV 2001

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OMB 0651-0027RECORDATION FORM COVER SHEET  
CONTINUATION  
PATENTS ONLYU.S. Department of Commerce  
Patent and Trademark Office  
PATENT

## Conveying Party(ies)

☐ Mark if additional names of conveying parties attached

Enter additional Conveying Parties

Name (line 1) Denise Farrer

Execution Date  
Month Day Year

November 27, 2001

Name (line 2)

Name (line 1) Thalia Papayannopoulou

Execution Date  
Month Day Year

November 29, 2001

Name (line 2)

Name (line 1) George Stamatoyannopoulos

Execution Date  
Month Day Year

November 27, 2001

Name (line 2)

## Receiving Party(ies)

☐ Mark if additional names of receiving parties attached

Enter additional Receiving Party(ies)

Name (line 1)

☐ If document to be recorded is an assignment and the receiving party is not domiciled in the United States, an appointment of a domestic representative is attached. (Designation must be a separate document from Assignment.)

Name (line 2)

Address (line 1)

Address (line 2)

Address (line 3)

City

State/Country

Zip Code

Name (line 1)

Name (line 2)

Address (line 1)

Address (line 2)

Address (line 3)

City

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## Application Number(s) or Patent Number(s)

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Enter either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the same property).

## Patent Application Number(s)

## Patent Number(s)



M&amp;A 30429.2USWO

**ASSIGNMENT**

WHEREAS, I/WE, André Lieber residing at 7251 29<sup>th</sup> Avenue, Seattle, Washington, 98115, Dmitry M. Shayakhmetov residing at 6500 25<sup>th</sup> Avenue, Seattle, Washington 98115, Denise R. Farrer residing at 1324 W. Emerson Street, Seattle, Washington 98119, Thalia Papayannopoulou residing at 702 35<sup>th</sup> Avenue, Seattle, Washington 98122, George Stamatoyannopoulos residing at 70256 35<sup>th</sup> Avenue, Seattle, Washington 98122 made certain new and useful inventions and improvements for which I/WE filed an application for Letters Patent of the United States as application Serial No. not yet known filed on herewith which is entitled RECOMBINANT ADENOVIRAL VECTORS FOR CELL SPECIFIC INFECTION AND GENOME INTEGRATION AND EXPRESSING CHIMERIC FIBER PROTEINS;

AND WHEREAS, University of Washington, organized and existing under the laws of the State of Washington, and having a place of business at 1107 NE 45<sup>th</sup> Street, Seattle, Washington 98105 (hereinafter "Assignee") is desirous of acquiring the entire right, title, and interest in and to said inventions, improvements and application, and in and to the Letters Patent to be obtained therefor;

NOW THEREFORE, to all whom it may concern, be it known that pursuant to contractual obligations heretofore assumed by ME/US and/or for other valuable and sufficient consideration, the receipt of which is hereby acknowledged, I/WE have sold, assigned, and transferred, and by these presents do sell, assign and transfer unto said Assignee, its successors or assigns, the entire right, title, and interest for all countries in and to all inventions and improvements disclosed in the aforesaid application, and in and to the application, all divisions, continuations, or renewals thereof, all Letters Patent which may be granted therefrom, and all reissues or extensions of such patents, and in and to any and all applications which have been or shall be filed in any foreign countries for Letters Patent on the inventions and improvements, including an assignment of all rights under the provisions of the International Convention, and all Letters Patent of foreign countries which may be granted therefrom; and I/WE do hereby authorize and

M&amp;A 30429.2USWO

request the Commissioner of Patents and Trademarks to issue any and all United States Letters Patent for the aforesaid inventions and improvements to the Assignee as the assignee of the entire right, title and interest in and to the same, for the use of the Assignee, its successors and assigns.

AND, for the consideration aforesaid, I/WE do hereby agree that I/WE and MY/OUR executors and legal representatives will make, execute and deliver any and all other instruments in writing including any and all further application papers, affidavits, assignments and other documents, and will communicate to said Assignee, its successors and representatives all facts known to ME/US relating to said improvements and the history thereof and will testify in all legal proceedings and generally do all things which may be necessary or desirable more effectually to secure to and vest in said Assignee, its successors or assigns the entire right, title and interest in and to the improvements, inventions, applications, Letters Patent, rights, titles, benefits, privileges and advantages hereby sold, assigned and conveyed, or intended so to be.

AND, furthermore I/WE covenant and agree with said Assignee, its successors and assigns, that no assignment, grant, mortgage, license or other agreement affecting the rights and priority herein conveyed has been made to others by ME/US and that full right to convey the same as herein expressed is possessed by ME/US.

M&amp;A 30429.2USWO

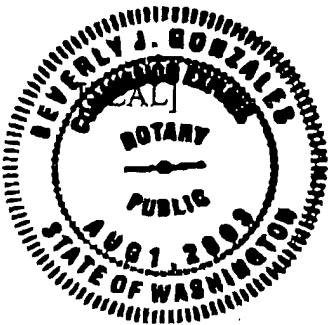
IN TESTIMONY WHEREOF, I have hereunto set my hand this 26 day  
of November, 2001.

\_\_\_\_\_  
André Lieber

STATE OF Washington )  
COUNTY OF King )

On 11/20/01, before me, BEVERLY J. GONZALES personally  
appeared André Lieber, ☒ personally  
known to me OR ☐ proved to me on the basis of  
satisfactory evidence to be the person whose name  
is subscribed to the within instrument and  
acknowledged to me that he executed the same in  
his authorized capacity, and that by his signature on  
the instrument the person, or the entity upon behalf  
of which the person acted, executed the instrument.

WITNESS my hand and official seal



\_\_\_\_\_  
Beverly J. Gonzales  
Notary Public



M&A 30429.2USWO

IN TESTIMONY WHEREOF, I have hereunto set my hand this \_\_\_\_\_ day  
of \_\_\_\_\_, 20\_\_\_\_\_.

\_\_\_\_\_  
Dmitry M. Shayakhmetov

STATE OF \_\_\_\_\_)

COUNTY OF \_\_\_\_\_)

On \_\_\_\_\_, before me, \_\_\_\_\_ personally  
appeared \_\_\_\_\_, ☐ personally  
known to me **OR** ☐ proved to me on the basis of  
satisfactory evidence to be the person whose name  
is subscribed to the within instrument and  
acknowledged to me that he executed the same in  
his authorized capacity, and that by his signature on  
the instrument the person, or the entity upon behalf  
of which the person acted, executed the instrument.

WITNESS my hand and official seal

[SEAL]

\_\_\_\_\_  
Notary Public

M&amp;A 30429.2USWO

IN TESTIMONY WHEREOF, I have hereunto set my hand this \_\_\_\_\_ day  
of \_\_\_\_\_, 20\_\_\_\_\_.

\_\_\_\_\_  
Denise R. Farrer

STATE OF \_\_\_\_\_ )

COUNTY OF \_\_\_\_\_ )

On \_\_\_\_\_, before me, \_\_\_\_\_ personally  
appeared \_\_\_\_\_, ☐ personally  
known to me **OR** ☐ proved to me on the basis of  
satisfactory evidence to be the person whose name  
is subscribed to the within instrument and  
acknowledged to me that he executed the same in  
his authorized capacity, and that by his signature on  
the instrument the person, or the entity upon behalf  
of which the person acted, executed the instrument.

WITNESS my hand and official seal

[SEAL]

\_\_\_\_\_  
Notary Public

M&A 30429.2USWO

IN TESTIMONY WHEREOF, I have hereunto set my hand this \_\_\_\_\_ day  
of \_\_\_\_\_, 20\_\_\_\_\_.

\_\_\_\_\_  
Thalia Papayannopoulou

STATE OF \_\_\_\_\_)

COUNTY OF \_\_\_\_\_)

On \_\_\_\_\_, before me, \_\_\_\_\_ personally  
appeared \_\_\_\_\_, ☐ personally  
known to me **OR** ☐ proved to me on the basis of  
satisfactory evidence to be the person whose name  
is subscribed to the within instrument and  
acknowledged to me that he executed the same in  
his authorized capacity, and that by his signature on  
the instrument the person, or the entity upon behalf  
of which the person acted, executed the instrument.

WITNESS my hand and official seal

[SEAL]

\_\_\_\_\_  
Notary Public

M&A 30429.2USWO

IN TESTIMONY WHEREOF, I have hereunto set my hand this \_\_\_\_\_ day  
of \_\_\_\_\_, 20\_\_\_\_\_.

\_\_\_\_\_  
George Stamatoyannopoulos

STATE OF \_\_\_\_\_ )

COUNTY OF \_\_\_\_\_ )

On \_\_\_\_\_, before me, \_\_\_\_\_ personally  
appeared \_\_\_\_\_, ☐ personally  
known to me **OR** ☐ proved to me on the basis of  
satisfactory evidence to be the person whose name  
is subscribed to the within instrument and  
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the instrument the person, or the entity upon behalf  
of which the person acted, executed the instrument.

WITNESS my hand and official seal

[SEAL]

\_\_\_\_\_  
Notary Public

**ASSIGNMENT**

WHEREAS, I/WE, André Lieber residing at 7251 29<sup>th</sup> Avenue, Seattle, Washington, 98115, Dmitry M. Shayakhmetov residing at 6500 25<sup>th</sup> Avenue, Seattle, Washington 98115, Denise R. Farrer residing at 1324 W. Emerson Street, Seattle, Washington 98119, Thalia Papayannopoulou residing at 702 35<sup>th</sup> Avenue, Seattle, Washington 98122, George Stamatoyannopoulos residing at 70256 35<sup>th</sup> Avenue, Seattle, Washington 98122 made certain new and useful inventions and improvements for which I/WE filed an application for Letters Patent of the United States as application Serial No. not yet known filed on herewith which is entitled RECOMBINANT ADENOVIRAL VECTORS FOR CELL SPECIFIC INFECTION AND GENOME INTEGRATION AND EXPRESSING CHIMERIC FIBER PROTEINS;

AND WHEREAS, University of Washington, organized and existing under the laws of the State of Washington, and having a place of business at 1107 NE 45<sup>th</sup> Street, Seattle, Washington 98105 (hereinafter "Assignee") is desirous of acquiring the entire right, title, and interest in and to said inventions, improvements and application, and in and to the Letters Patent to be obtained therefor;

NOW THEREFORE, to all whom it may concern, be it known that pursuant to contractual obligations heretofore assumed by ME/US and/or for other valuable and sufficient consideration, the receipt of which is hereby acknowledged, I/WE have sold, assigned, and transferred, and by these presents do sell, assign and transfer unto said Assignee, its successors or assigns, the entire right, title, and interest for all countries in and to all inventions and improvements disclosed in the aforesaid application, and in and to the application, all divisions, continuations, or renewals thereof, all Letters Patent which may be granted therefrom, and all reissues or extensions of such patents, and in and to any and all applications which have been or shall be filed in any foreign countries for Letters Patent on the inventions and improvements, including an assignment of all rights under the provisions of the International Convention, and all Letters Patent of foreign countries which may be granted therefrom; and I/WE do hereby authorize and

request the Commissioner of Patents and Trademarks to issue any and all United States Letters Patent for the aforesaid inventions and improvements to the Assignee as the assignee of the entire right, title and interest in and to the same, for the use of the Assignee, its successors and assigns.

AND, for the consideration aforesaid, I/WE do hereby agree that I/WE and MY/OUR executors and legal representatives will make, execute and deliver any and all other instruments in writing including any and all further application papers, affidavits, assignments and other documents, and will communicate to said Assignee, its successors and representatives all facts known to ME/US relating to said improvements and the history thereof and will testify in all legal proceedings and generally do all things which may be necessary or desirable more effectually to secure to and vest in said Assignee, its successors or assigns the entire right, title and interest in and to the improvements, inventions, applications, Letters Patent, rights, titles, benefits, privileges and advantages hereby sold, assigned and conveyed, or intended so to be.

AND, furthermore I/WE covenant and agree with said Assignee, its successors and assigns, that no assignment, grant, mortgage, license or other agreement affecting the rights and priority herein conveyed has been made to others by ME/US and that full right to convey the same as herein expressed is possessed by ME/US.

IN TESTIMONY WHEREOF, I have hereunto set my hand this \_\_\_\_\_ day  
of \_\_\_\_\_, 20\_\_\_\_\_.

\_\_\_\_\_  
André Lieber

STATE OF \_\_\_\_\_)

COUNTY OF \_\_\_\_\_)

On \_\_\_\_\_, before me, \_\_\_\_\_ personally  
appeared \_\_\_\_\_, ☐ personally  
known to me **OR** ☐ proved to me on the basis of  
satisfactory evidence to be the person whose name  
is subscribed to the within instrument and  
acknowledged to me that he executed the same in  
his authorized capacity, and that by his signature on  
the instrument the person, or the entity upon behalf  
of which the person acted, executed the instrument.

WITNESS my hand and official seal

[SEAL]

\_\_\_\_\_  
Notary Public

IN TESTIMONY WHEREOF, I have hereunto set my hand this \_\_\_\_\_ day  
of \_\_\_\_\_, 20\_\_\_\_\_.

\_\_\_\_\_  
Dmitry M. Shayakhmetov

STATE OF \_\_\_\_\_ )  
\_\_\_\_\_)  
COUNTY OF \_\_\_\_\_ )

On \_\_\_\_\_, before me, \_\_\_\_\_ personally  
appeared \_\_\_\_\_, ☐ personally  
known to me **OR** ☐ proved to me on the basis of  
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the instrument the person, or the entity upon behalf  
of which the person acted, executed the instrument.

WITNESS my hand and official seal

[SEAL]

\_\_\_\_\_  
Notary Public



IN TESTIMONY WHEREOF, I have hereunto set my hand this \_\_\_\_\_ day  
of \_\_\_\_\_, 20\_\_\_\_\_.

\_\_\_\_\_  
Denise R. Farrer

STATE OF \_\_\_\_\_ )  
 )  
COUNTY OF \_\_\_\_\_ )

On \_\_\_\_\_, before me, \_\_\_\_\_ personally  
appeared \_\_\_\_\_, ☐ personally  
known to me **OR** ☐ proved to me on the basis of  
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the instrument the person, or the entity upon behalf  
of which the person acted, executed the instrument.

WITNESS my hand and official seal

[SEAL]

\_\_\_\_\_  
Notary Public

IN TESTIMONY WHEREOF, I have hereunto set my hand this 29th day  
of November, 2001.

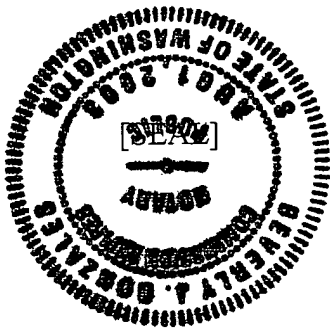
Thalia Papayannopoulou  
Thalia Papayannopoulou

STATE OF Washington )

COUNTY OF King )

On 11/29/01, before me, BEVERLY J. GONZALES personally  
appeared Thalia Papayannopoulou, ☒ personally  
known to me **OR** ☐ proved to me on the basis of  
satisfactory evidence to be the person whose name  
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WITNESS my hand and official seal



Beverly J. Gonzales  
Notary Public

IN TESTIMONY WHEREOF, I have hereunto set my hand this \_\_\_\_\_ day  
of \_\_\_\_\_, 20\_\_\_\_\_.

\_\_\_\_\_  
George Stamatoyannopoulos

STATE OF \_\_\_\_\_ )  
 )  
COUNTY OF \_\_\_\_\_ )

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[SEAL]

\_\_\_\_\_  
Notary Public

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\_\_\_\_\_  
André Lieber

STATE OF \_\_\_\_\_ )  
 )  
COUNTY OF \_\_\_\_\_ )

On \_\_\_\_\_, before me, \_\_\_\_\_ personally  
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WITNESS my hand and official seal

[SEAL]

\_\_\_\_\_  
Notary Public

IN TESTIMONY WHEREOF, I have hereunto set my hand this \_\_\_\_\_ day  
of \_\_\_\_\_, 20\_\_\_\_\_.

\_\_\_\_\_  
Dmitry M. Shayakhmetov

STATE OF \_\_\_\_\_)

COUNTY OF \_\_\_\_\_)

On \_\_\_\_\_, before me, \_\_\_\_\_ personally  
appeared \_\_\_\_\_, ☐ personally  
known to me **OR** ☐ proved to me on the basis of  
satisfactory evidence to be the person whose name  
is subscribed to the within instrument and  
acknowledged to me that he executed the same in  
his authorized capacity, and that by his signature on  
the instrument the person, or the entity upon behalf  
of which the person acted, executed the instrument.

WITNESS my hand and official seal

[SEAL]

\_\_\_\_\_  
Notary Public

IN TESTIMONY WHEREOF, I have hereunto set my hand this \_\_\_\_\_ day  
of \_\_\_\_\_, 20\_\_\_\_\_.

\_\_\_\_\_  
Denise R. Farrer

STATE OF \_\_\_\_\_ )  
 )  
COUNTY OF \_\_\_\_\_ )

On \_\_\_\_\_, before me, \_\_\_\_\_ personally  
appeared \_\_\_\_\_, ☐ personally  
known to me **OR** ☐ proved to me on the basis of  
satisfactory evidence to be the person whose name  
is subscribed to the within instrument and  
acknowledged to me that he executed the same in  
his authorized capacity, and that by his signature on  
the instrument the person, or the entity upon behalf  
of which the person acted, executed the instrument.

WITNESS my hand and official seal

[SEAL]

\_\_\_\_\_  
Notary Public



IN TESTIMONY WHEREOF, I have hereunto set my hand this \_\_\_\_\_ day  
of \_\_\_\_\_, 20\_\_\_\_\_.

\_\_\_\_\_  
Thalia Papayannopoulou

STATE OF \_\_\_\_\_)

COUNTY OF \_\_\_\_\_)

On \_\_\_\_\_, before me, \_\_\_\_\_ personally  
appeared \_\_\_\_\_, ☐ personally  
known to me **OR** ☐ proved to me on the basis of  
satisfactory evidence to be the person whose name  
is subscribed to the within instrument and  
acknowledged to me that he executed the same in  
his authorized capacity, and that by his signature on  
the instrument the person, or the entity upon behalf  
of which the person acted, executed the instrument.

WITNESS my hand and official seal

[SEAL]

\_\_\_\_\_  
Notary Public

IN TESTIMONY WHEREOF, I have hereunto set my hand this 27th day  
of November, 2001.

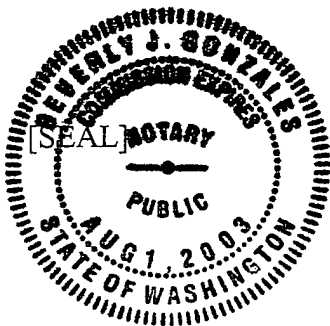
George Stamatoyannopoulos  
George Stamatoyannopoulos

STATE OF Washington)

COUNTY OF King)

On 11/27/01, before me, Beverly Gonzales personally  
appeared George Stamatoyannopoulos ☒ personally  
known to me OR ☐ proved to me on the basis of  
satisfactory evidence to be the person whose name  
is subscribed to the within instrument and  
acknowledged to me that he executed the same in  
his authorized capacity, and that by his signature on  
the instrument the person, or the entity upon behalf  
of which the person acted, executed the instrument.

WITNESS my hand and official seal



Beverly J. Gonzales  
Notary Public